

Champaign County Regional Planning Commission

POSITION DESCRIPTION

Position Title: Senior Transportation Engineer

Reports To: Planning and Community Development Director

Supervises: Associate Transportation Engineer, Transportation Engineer

FLSA Status: Exempt

Pay Grade: 8

General Duties:

The Senior Transportation Engineer is responsible for performing work in current and long-range traffic engineering and transportation planning. The Senior Transportation Engineer is responsible for preparing transportation engineering and planning studies, including but not limited to: traffic signal warrant studies, traffic signal operation studies, pedestrian crossing evaluations, roadway capacity analyses, speed studies, queuing studies, corridor studies, traffic impact studies, on-street parking evaluations, access management, crash data analysis, and safety studies. It also requires working knowledge of travel demand modeling techniques. The Senior Engineer works closely with the Planning and Community Development Director and supervises other program engineers and coordinate projects involving program engineers and planners.

Specific Duties and Responsibilities:

- Prepares transportation engineering and planning studies, including but not limited to: traffic signal warrant studies, traffic signal operation studies, pedestrian crossing evaluations, roadway capacity analyses, speed studies, queuing studies, corridor studies, traffic impact studies, on-street parking evaluations, access management, crash data analysis, and safety studies.
- Responsible for planning, organizing, and directing work for the Associate Transportation Engineer and Transportation Engineer for transportation engineering and planning studies.
- Prepares projects' staffing, budgets, timelines, client contacts, proposals and costs.
- Responsible for presenting studies to the CUUATS Policy Committee and other boards or committees as deemed necessary by the Planning and Community Development Director.

- Works closely with the Planning and Community Development Director on projects assisting with larger-scope or longer-range projects.
- Coordinates with local representatives to facilitate work.
- Addresses client concerns as appropriate.
- Ensures that all correspondence, project submittals, billings, etc., are produced with a high level of accuracy and professionalism.

Required Knowledge, Skills, Characteristics and Abilities:

- Bachelor's Degree in civil/transportation engineering or transportation planning with seven years of experience in an engineering environment or a Master's Degree in transportation/traffic engineering with three years of experience.
- Working knowledge of traffic engineering concepts, traffic calming, and urban design issues.
- Working knowledge of principles and practices of transportation planning.
- Working knowledge of transportation software such as HCS, SYNCHRO, and CORSIM.
- Working knowledge of network modeling software such as CUBE and VOYAGER.
- Knowledge/experience, including areas such as design of roadways, intersections, signage, pavement markings, traffic signals, and cost estimating.
- Experience in data processing and analysis using programming language coding (e.g., Python or R)
- Familiarity with statistical analysis (regression, RMSE, etc.).
- Experience in using statistical analysis/database software (e.g., R, PostgreSQL).
- Working knowledge of Geographic Information System (GIS).

Essential Functions:

- Experience with computers and transportation engineering/planning software.
- Ability to think analytically, apply general concepts to other applicable topics.
- Excellent organizational skills.
- Excellent verbal and written communication skills.
- Strong ability to multi-task and meet deadlines.
- Experience with GIS programs and data sources.
- Ability to work independently as well as with small teams.
- Experience at presenting transportation studies to different groups.

Competencies:

- Problem Solving/Analysis
- Communication Proficiency
- Decision Making
- Ethical Conduct
- Time Management
- Detail-oriented

Work Environment:

- Office work will be performed in an open cubicle environment sometimes involving distractions.
- Frequent near-vision use for reading and computer work
- Evening and weekend availability is required as needs of the program dictate.

Disclaimer:

The job description is not designed to cover or contain a comprehensive listing of activities, duties, or responsibilities that are required of the employee. Other duties, responsibilities, and activities may change or be assigned at any time with or without notice.

Signature of Employee _____

Date _____

07/19